

# EPICS – 2022 Codeathon



EPICS Tools  
*Phoebus*  
*CS-Studio*

EPICS Service  
*Olog*  
*ChannelFinder*  
*Save Restore*

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**ITUI**

# EPICS core

- CAJ workaround patches for ITER
- Agreements on the roadmap for CAJ/JCA and CA support
  - Mostly bug fixes, emphasizing stability
  - New features will go into PVA
- Prototype for NameServer using the core-pva PV Access Server lib
  - Listens to name searches via UDP or TCP, IPv4 or IPv6
  - Replies with TCP address & port of actual PVA server
  - For now, manual config, plan to eventually use e.g. Channel Finder

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# EPICS Services

- Elastic 6 (→7) → 8 upgrade
  - Documentation of process to migrate data
  - Testing with ChannelFinder index migration
- Channel Finder improvements/maintenance
  - Publish “ENGINEER”, “LOCATION” or configurable env. vars from IOC (working on an IOC shell command to configure this list on each IOC)
  - Display errors in GUI
  - Refresh GUI when editing channel data
- Save Restore
  - Complete documentation of the REST API
- pvInfo web project
  - Displays ChannelFinder information
  - Adds live data from PV web socket
  - Adds history data from Archive Appliance

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# EPICS tools

- Improvement to the databrowser
  - Better indication of 'disconnect'
- Fixing Javadoc errors and warnings
  - ChannelFinder
  - Display Builder
- Epics tools and services Releases
  - A release mechanism for all org.phoebus projects
    - PV Web Socket now uses released core-pv module (ca, pva, sim, ...)
  - Phoebus Olog release 2.0.5
  - ChannelFinder release 4.0.4
  - Phoebus Core modules

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# EPICS tools

- What was good:
  - Great to meet people
  - Effective way to address issues that usually impact a lot of e.g. release process, important tech upgrades
  - Plan roadmap
  - Collectively devote time to the Channel Finder ecosystem: GUI, recsync, javadoc, ElasticSearch update, ...
  - Fast internet generally allows smooth audio, video and screen sharing
- What was bad:
  - Time zone differences still matter